SIEMENS

Data sheet 3RA6400-1DB43



SIRIUS Compact load feeder DOL starter for IO-Link 690 V 24 V DC 3...12 A IP20 Connection main circuit: plug-in, without terminals Connection control circuit: screw terminal

product brand name	SIRIUS	
product designation	Compact starter for IO-Link	
design of the product	direct starter	
product type designation	3RA64	
General technical data		
product function control circuit interface to parallel wiring	No	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current at AC in hot operating state	1.8 W	
• per pole	0.6 W	
power loss [W] for rated value of the current without load current share typical	2.9 W	
insulation voltage rated value	690 V	
degree of pollution	3	
surge voltage resistance rated value	6 000 V	
degree of protection NEMA rating	other	
shock resistance	a=60 m/s2 (6g) with 10 ms per 3 shocks in all axes	
vibration resistance	f= 4 5.8 Hz, d= 15 mm; f= 5.8 500 Hz, a= 20 m/s ² ; 10 cycles	
mechanical service life (switching cycles)		
 of the main contacts typical 	10 000 000	
 of auxiliary contacts typical 	10 000 000	
 of the signaling contacts typical 	10 000 000	
electrical endurance (switching cycles) of auxiliary contacts		
at DC-13 at 6 A at 24 V typical	30 000	
at AC-15 at 6 A at 230 V typical	200 000	
type of assignment	continous operation according to IEC 60947-6-2	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.05.2012 00:00:00	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
 ambient temperature during operation 	-20 +60 °C	
 ambient temperature during storage 	-55 +80 °C	
 ambient temperature during transport 	-55 +80 °C	
relative humidity during operation	10 90 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the	3 12 A	

	current dependent overland release	
	current-dependent overload release	12 v lo
		1 1 1 1 1
		10 x 16
### act ### ac		5.5 kW
• at 690 V rated value • operating voltage at AC-3 rated value maximum or at AC at 400 V rated value at AC at 400 V rated value at AC at 400 V rated value at 600 V rated value 5 500 W at 500 V rated value 5 500 W at 500 V rated value 5 500 W at 600 V rated value 7 500 W no-load switching frequency 3 600 V fin at AC-43 acc. to IEC 60947-6-2 maximum at AC-43 acc. to IEC 60947-6-2 maximum 250 V fin at AC-43 acc. to IEC 60947-6-2 maximum 250 V fin at AC-43 acc. to IEC 60947-6-2 maximum 250 V fin at AC-43 acc. to IEC 60947-6-2 maximum 250 V fin at AC-43 acc. to IEC 60947-6-2 maximum 250 V fin control crecuit Control type of voltage bolding power at BC maximum 2.9 W Auxillary circuit number of NC contacts for auxillary contacts number of NC contacts for auxillary contacts number of NC contacts for auxillary contacts number of NC contacts of he current-dependent overload release for ispanlaneous short-circuit trip unit for signaling contact operational current of auxillary contacts at AC-12 maximum operational current of auxillary contacts at AC-12 maximum product for AC contacts of the current-dependent overload release for signaling contact Trip class CLASS 10 and 20 adjustable breaking capacity operating short-circuit current (les) at 400 V rated value 3 kA 4 at 200 V rated value 3 kA 3 kA 3 kA 4 at 200 V rated value 3 kA 3 kA 3 kA 4 at 400 V rated value 3 kA 3 kA 4 at 400 V rated value 3 kA 4 at 400 V rated value 4 at 400 RO V rated value 4 at 400 RO V rated value 4 at 400 RO V rated value 4 at 57500 V rated value 4 at 57500 V rated value 5 kectorial protection 4		
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• at AC-43	•	40.4
		IZ A
		44.5.0
operating power		
Operating power		
• at AC-3 at 400 V rated value • at AC-43 — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value • at AC-41 acc. to IEC 60947-6-2 maximum • at AC-43 acc. to IEC 60947-6-2 maximum control circuit/ Control type of voltage holding power • at DC maximum Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts of the current-dependent overload release for signaling contact number of NC contacts of the current-dependent overload release for signaling contact number of NC contacts of the current-dependent overload release for signaling contact number of NC contacts of the current for auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current of auxiliary contacts at AC-12 number of NC contacts of the current overload release for signaling contact 10 A number of NC contacts of the current-dependent overload release for signaling contact 10 A number of NC contacts of the current-dependent overload release for signaling contact 10 A number of NC contacts of the curr		8.9 A
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		5.5 KVV
at 500 V rated value		F F00 W
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Control circuit/ Control type of voltage holding power		
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trip class CLASS 10 and 20 adjustable breaking capacity operating short-circuit current (Ics)		10 A
trip class CLASS 10 and 20 adjustable breaking capacity operating short-circuit current (Ics) • at 400 V • at 500 V rated value • at 690 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value • at 220/230 V rated value • at 480/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 680 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 690 V rated val	operational current of auxiliary contacts at DC-13 at 250 V	0.27 A
breaking capacity operating short-circuit current (Ics) • at 400 V • at 500 V rated value 3 kA • at 690 V rated value 3 kA UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 12 A • at 600 V rated value 12 A yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value 3 hp • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value 10 hp Short-circuit protection product function short circuit protection Yes design of short-circuit protection	Protective and monitoring functions	
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor • at 200/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value To hp Short-circuit protection product function short circuit protection design of short-circuit protection eat 480 V rated value To hp Yes electromagnetic	 at 500 V rated value 	3 kA
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• at 575/600 V rated value 10 hp Short-circuit protection product function short circuit protection Yes design of short-circuit protection electromagnetic	• at 220/230 V rated value	3 hp
• at 575/600 V rated value 10 hp Short-circuit protection product function short circuit protection Yes design of short-circuit protection electromagnetic	• at 460/480 V rated value	
Short-circuit protection product function short circuit protection design of short-circuit protection electromagnetic	• at 575/600 V rated value	
product function short circuit protection design of short-circuit protection Yes electromagnetic	Short-circuit protection	
design of short-circuit protection electromagnetic		Yes
design of the fuse link	-	

 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
Installation/ mounting/ dimensions	
mounting position	any
• recommended	vertical, on horizontal standard mounting rail
fastening method	screw and snap-on mounting
height	170 mm
width	45 mm
depth	165 mm
·	103 11111
Connections/ Terminals	
product function	Vaa
removable terminal for main circuit	Yes
removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	plug-in without terminals
for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.5 6 mm²), 1x 10 mm²
 finely stranded with core end processing 	2x (1.5 6 mm²)
at AWG cables for main contacts	2x (16 10), 1x 8
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	0.5 4 mm², 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	0.5 2.5 mm², 2x (0.5 1.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 14)
Safety related data	
B10 value with high demand rate acc. to SN 31920	3 000 000
proportion of dangerous failures	
 with high demand rate acc. to SN 31920 	50 %
Communication/ Protocol	
product function bus communication	Yes
protocol is supported	
IO-Link protocol	Yes
product function control circuit interface with IO link	Yes
IO-Link transfer rate	COM2 (38,4 kBaud)
point-to-point cycle time between master and IO-Link	2.5 ms
device minimum	2.0 1110
type of voltage supply via input/output link master	No
data volume	
 of the address range of the inputs with cyclical transfer total 	2 byte
 of the address range of the outputs with cyclical transfer total 	2 byte
Electromagnetic compatibility	
conducted interference	
• due to burst acc. to IEC 61000-4-4	4 kV main circuits, 2 kV auxiliary circuits, 2 kV IO-Link, 2 kV limit switches, 2 kV line hand-held device
• due to conductor-earth surge acc. to IEC 61000-4-5	4 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection
 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV main circuits, 0.5 kV auxiliary voltage with upstream overvoltage protection
 due to high-frequency radiation acc. to IEC 61000- 4-6 	0.15-80Mhz at 10V
field-based interference acc. to IEC 61000-4-3	80 3000 MHz at 10V/m
electrostatic discharge acc. to IEC 61000-4-2	8 kV
conducted HF interference emissions acc. to CISPR11	150 kHz 30 MHz Class A
field-bound HF interference emission acc. to CISPR11	30 1000 MHz Class A
Supply voltage	

Supply voltage required Auxiliary voltage	Yes
Display	
number of LEDs	3
display version as status display of the input/output link device	green/red dual LED

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA6400-1DB43

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA6400-1DB43

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-1DB43}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

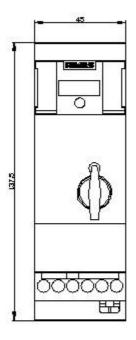
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA6400-1DB43&lang=en

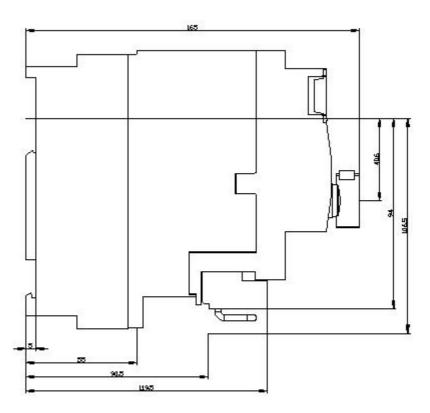
Characteristic: Tripping characteristics, I2t, Let-through current

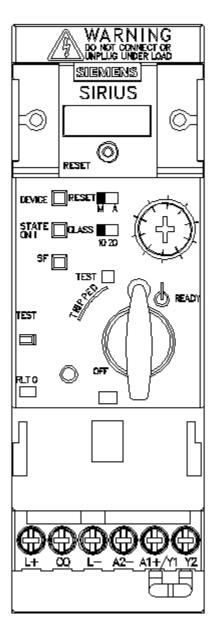
https://support.industry.siemens.com/cs/ww/en/ps/3RA6400-1DB43/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA6400-1DB43&objecttype=14&gridview=view1







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